

Title (en)  
Testing passive components

Title (de)  
Zerstörungsfreie Prüfung von passiven Bauelementen

Title (fr)  
Test de composants passifs

Publication  
**EP 1098201 A2 20010509 (DE)**

Application  
**EP 00203728 A 20001026**

Priority  
DE 19952899 A 19991103

Abstract (en)  
The method involves applying voltage pulses to the component terminals. The electrical field produced by this generates mechanical stresses in the domain walls of the component which, with faulty components, leads to crack formation. This in turn produces an acoustically measurable noise which can be picked up by a microphone and evaluated by comparing the resultant frequency spectrum with that for high quality components

Abstract (de)  
Die Erfindung betrifft eine Vorrichtung und ein Verfahren zur zerstörungsfreien Prüfung von passiven Bauelementen (1), bei denen zur Qualitätskontrolle von passiven Bauelementen (1) ein elektrisches Prüfsignal auf das Bauelement (1) angewendet wird und eine akustische Emission mittels eines Mikrofons (4) meßbar ist, welches einer Auswerteeinheit (5) zugeführt wird. <IMAGE>

IPC 1-7  
**G01R 31/01**

IPC 8 full level  
**G01R 31/00** (2006.01); **G01N 27/92** (2006.01); **G01N 29/14** (2006.01); **G01R 31/01** (2006.01); **G01R 31/265** (2006.01); **H01G 13/00** (2013.01)

CPC (source: EP US)  
**G01R 31/013** (2013.01 - EP US); **G01R 31/265** (2013.01 - EP US)

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